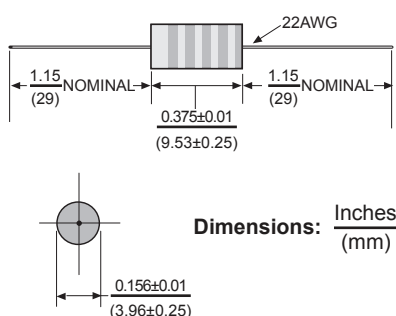


# AM30 Axial Molded Inductors



## Electrical

**Inductance Range:** .10  $\mu$ H to 1000  $\mu$ H.

**Tolerance:** 20% for values from .10  $\mu$ H to .47  $\mu$ H. 10% for values from .56  $\mu$ H to 33  $\mu$ H. 5% for values from 36  $\mu$ H to 1000  $\mu$ H. Also available in tighter tolerances.

**Rated Current:** Based on Inductance Drop < 10% at rated current.

**Test Procedures:** L and Q measured with HP4342A. Q meter at specified frequency. SRF measured with HP-4191A, 4291. DCR measured with CH-301 Digital Milliohm meter.

**Dielectric Strength:** 1000 volts RMS at sea level.

**Operating Temp.:** -55°C to + 125°C.

## Physical

**Marking (on part):** 5 Band Color Code per MIL-C-15305.

**Marking (on reel):** Manufacturers name, Part Number, Customers Part Number, Invoice Number, Lot or Data Code.

**Packaging (bulk):** 1000 pieces per bag.

**Packaging (reel):** 3000 pieces per reel.

| Allied Part Number | Inductance ( $\mu$ H) | Tolerance (%) | Q Min. | Test Freq. (MHz) | SRF Min. (MHz) | DCR Max. ( $\Omega$ ) | Rated Current (mA) |
|--------------------|-----------------------|---------------|--------|------------------|----------------|-----------------------|--------------------|
| AM30-R10M-RC       | .10                   | 20            | 50     | 25               | 520            | 0.02                  | 2780               |
| AM30-R12M-RC       | .12                   | 20            | 50     | 25               | 525            | .025                  | 2740               |
| AM30-R15M-RC       | .15                   | 20            | 50     | 25               | 525            | 0.03                  | 2740               |
| AM30-R22M-RC       | .22                   | 20            | 50     | 25               | 450            | .055                  | 2020               |
| AM30-R33M-RC       | .33                   | 20            | 45     | 25               | 360            | 0.09                  | 1580               |
| AM30-R39M-RC       | .39                   | 20            | 45     | 25               | 330            | 0.11                  | 1420               |
| AM30-R47M-RC       | .47                   | 20            | 45     | 25               | 310            | 0.12                  | 1370               |
| AM30-R56K-RC       | .56                   | 10            | 50     | 25               | 280            | .135                  | 1290               |
| AM30-R68K-RC       | .68                   | 10            | 50     | 25               | 250            | 0.15                  | 1220               |
| AM30-R82K-RC       | .82                   | 10            | 50     | 25               | 220            | 0.22                  | 1020               |
| AM30-1R0K-RC       | 1.0                   | 10            | 50     | 25               | 200            | 0.29                  | 880                |
| AM30-1R2K-RC       | 1.2                   | 10            | 33     | 7.9              | 180            | 0.42                  | 730                |
| AM30-1R5K-RC       | 1.5                   | 10            | 33     | 7.9              | 160            | 0.50                  | 670                |
| AM30-1R8K-RC       | 1.8                   | 10            | 33     | 7.9              | 150            | 0.65                  | 590                |
| AM30-2R2K-RC       | 2.2                   | 10            | 33     | 7.9              | 135            | 0.95                  | 485                |
| AM30-2R7K-RC       | 2.7                   | 10            | 33     | 7.9              | 120            | 1.20                  | 430                |
| AM30-3R3K-RC       | 3.3                   | 10            | 33     | 7.9              | 110            | 2.00                  | 335                |
| AM30-3R9K-RC       | 3.9                   | 10            | 33     | 7.9              | 100            | 2.30                  | 310                |
| AM30-4R7K-RC       | 4.7                   | 10            | 33     | 7.9              | 90             | 2.60                  | 294                |
| AM30-5R6K-RC       | 5.6                   | 10            | 45     | 7.9              | 60             | 0.32                  | 565                |
| AM30-6R8K-RC       | 6.8                   | 10            | 50     | 7.9              | 55             | 0.50                  | 450                |
| AM30-8R2K-RC       | 8.2                   | 10            | 50     | 7.9              | 50             | 0.60                  | 410                |
| AM30-100K-RC       | 10                    | 10            | 55     | 7.9              | 45             | 0.90                  | 335                |
| AM30-120K-RC       | 12                    | 10            | 65     | 2.5              | 42             | 1.10                  | 305                |
| AM30-150K-RC       | 15                    | 10            | 65     | 2.5              | 40             | 1.40                  | 271                |
| AM30-180K-RC       | 18                    | 10            | 75     | 2.5              | 34             | 2.25                  | 213                |
| AM30-220K-RC       | 22                    | 10            | 75     | 2.5              | 30             | 2.50                  | 202                |
| AM30-240K-RC       | 24                    | 10            | 60     | 2.5              | 26             | 2.50                  | 202                |
| AM30-270K-RC       | 27                    | 10            | 60     | 2.5              | 25             | 2.60                  | 198                |
| AM30-300K-RC       | 30                    | 10            | 65     | 2.5              | 21             | 2.80                  | 191                |
| AM30-330K-RC       | 33                    | 10            | 65     | 2.5              | 19             | 3.00                  | 185                |
| AM30-360J-RC       | 36                    | 5             | 60     | 2.5              | 15.5           | 2.50                  | 202                |
| AM30-390J-RC       | 39                    | 5             | 60     | 2.5              | 14.5           | 2.60                  | 198                |
| AM30-430J-RC       | 43                    | 5             | 60     | 2.5              | 13.7           | 2.70                  | 194                |
| AM30-470J-RC       | 47                    | 5             | 55     | 2.5              | 13.0           | 2.75                  | 193                |
| AM30-510J-RC       | 50                    | 5             | 55     | 2.5              | 12.7           | 2.85                  | 189                |
| AM30-560J-RC       | 56                    | 5             | 55     | 2.5              | 12.0           | 3.00                  | 184                |
| AM30-620J-RC       | 62                    | 5             | 55     | 2.5              | 11.5           | 3.15                  | 180                |
| AM30-680J-RC       | 68                    | 5             | 55     | 2.5              | 11.0           | 3.30                  | 176                |
| AM30-750J-RC       | 75                    | 5             | 55     | 2.5              | 10.5           | 3.70                  | 166                |
| AM30-820J-RC       | 82                    | 5             | 50     | 2.5              | 10.3           | 3.90                  | 162                |
| AM30-910J-RC       | 91                    | 5             | 50     | 2.5              | 10.0           | 4.30                  | 154                |
| AM30-101J-RC       | 100                   | 5             | 50     | 2.5              | 9.5            | 4.50                  | 151                |
| AM30-111J-RC       | 110                   | 5             | 60     | .79              | 8.9            | 4.90                  | 144                |
| AM30-121J-RC       | 120                   | 5             | 65     | .79              | 8.7            | 5.20                  | 140                |
| AM30-131J-RC       | 130                   | 5             | 65     | .79              | 8.5            | 5.45                  | 137                |
| AM30-151J-RC       | 150                   | 5             | 65     | .79              | 8.0            | 6.05                  | 130                |
| AM30-161J-RC       | 160                   | 5             | 65     | .79              | 7.5            | 6.40                  | 126                |
| AM30-181J-RC       | 180                   | 5             | 65     | .79              | 8.0            | 6.05                  | 130                |
| AM30-201J-RC       | 200                   | 5             | 65     | .79              | 6.5            | 7.10                  | 123                |
| AM30-221J-RC       | 220                   | 5             | 65     | .79              | 6.2            | 7.45                  | 117                |
| AM30-241J-RC       | 240                   | 5             | 65     | .79              | 5.9            | 7.80                  | 115                |
| AM30-271J-RC       | 270                   | 5             | 65     | .79              | 5.7            | 11.0                  | 143                |
| AM30-301J-RC       | 300                   | 5             | 65     | .79              | 5.4            | 11.5                  | 140                |
| AM30-331J-RC       | 330                   | 5             | 65     | .79              | 5.1            | 12.0                  | 136                |
| AM30-361J-RC       | 360                   | 5             | 65     | .79              | 4.8            | 12.5                  | 134                |
| AM30-391J-RC       | 390                   | 5             | 65     | .79              | 4.5            | 16.3                  | 117                |
| AM30-431J-RC       | 430                   | 5             | 65     | .79              | 4.2            | 17.1                  | 115                |
| AM30-471J-RC       | 470                   | 5             | 65     | .79              | 3.9            | 17.9                  | 112                |
| AM30-511J-RC       | 510                   | 5             | 65     | .79              | 3.7            | 18.8                  | 109                |
| AM30-561J-RC       | 560                   | 5             | 65     | .79              | 3.8            | 19.5                  | 107                |
| AM30-621J-RC       | 620                   | 5             | 65     | .79              | 3.3            | 25.9                  | 93                 |
| AM30-681J-RC       | 680                   | 5             | 65     | .79              | 3.1            | 27.2                  | 91                 |
| AM30-751J-RC       | 750                   | 5             | 65     | .79              | 2.9            | 28.6                  | 88                 |
| AM30-821J-RC       | 820                   | 5             | 65     | .79              | 2.7            | 30.0                  | 86                 |
| AM30-911J-RC       | 910                   | 5             | 65     | .79              | 2.5            | 31.5                  | 84                 |
| AM30-102J-RC       | 1000                  | 5             | 65     | .79              | 2.3            | 33.0                  | 82                 |

All specifications subject to change without notice.